

In the Claims:

Claims 1-33 (Cancelled).

34. (Withdrawn) A cryosurgery system comprising:

- (a) a first gas compressor for compressing gas;
- (b) a cryoablation apparatus utilizing compressed gas; and
- (c) a mechanism for transporting compressed gas from said gas compressor to said cryoablation apparatus during use.

35. (Withdrawn) The system of claim 34, wherein said cryoablation apparatus comprises a Joule-Thomson heat exchanger for cooling a portion of said cryoablation apparatus.

36. (Withdrawn) The system of claim 35, further comprising:

- (d) a mechanism for re-pressurizing a gas depressurized by use in said Joule-Thomson heat exchanger.

37. (Withdrawn) The system of claim 36, further including a mechanism for transporting a gas depressurized by use in a Joule-Thomson heat exchanger from said cryoablation apparatus to said gas compressor.

38. (Withdrawn) The system of claim 37, wherein said mechanism for transporting a gas includes a second gas compressor.

39. (Withdrawn) The system of claim 37, wherein said mechanism for transporting a gas includes a gas reservoir.

40. (Withdrawn) The system of claim 34, wherein said gas compressor comprises a fixed-volume container having a hollow and a moveable element subdividing said hollow into a first variable-volume portion

4

and a second variable-volume portion, said second variable-volume portion having an opening for introducing therein a hydraulic and/or pneumatic fluid under pressure, for causing an increase in a volume of said second variable-volume portion by moving said moveable element, thereby consequently decreasing a volume of said first variable-volume portion and compressing a gas contained therein.

41. (Withdrawn) The system of claim 40, wherein said first variable-volume portion of said first gas compression apparatus is coupled during a first phase of operation to a mechanism for introducing a gas into said first variable-volume portion of said first gas compression apparatus, and said first variable-volume portion of said first gas compression apparatus is coupled during a second phase of operation to said mechanism for transporting a compressed gas from said first variable-volume portion of said first gas compression apparatus to said compressed gas utilizing application.

42. (Withdrawn) A method for cryosurgery, involving *in situ* compression of gas, comprising:

- (a) using a first *in situ* gas compressor to compress a gas, thereby transforming said gas into a first compressed gas at a first gas pressure;
- (b) transferring said first compressed gas at said first gas pressure from said first gas compressor to a cryoablation apparatus utilizing said first compressed gas at said first gas pressure; and
- (c) using said cryoablation apparatus to perform cryoablation, thereby creating a decompressed gas at a second gas pressure.

43. (Withdrawn) The method of claim 42, further comprising:

- (d) transferring said depressurized gas at said second gas pressure to said first gas compressor, for recompression and reuse; and
- (e) recompressing and reusing said depressurized gas.

44. (Withdrawn) The method of claim 42, further comprising:
- (d) transferring said depressurized gas at said second gas pressure to a second gas compressor, for recompression and reuse; and
 - (e) recompressing and reusing said depressurized gas.

45. (New) A gas supply module for supplying compressed gas to a gas utilizing application, comprising a first refillable gas supply unit operable to be filled through a first input portal with a first pressurized gas at a first pressure, and further operable to supply said first gas to said gas utilizing application at a second pressure when a fluid pressurizer supplies a pressurizing fluid pressurized to said second pressure at a second input portal of said refillable gas supply unit.

46. (New) The gas supply module of claim 45, wherein said first refillable gas supply unit is portable.

47. (New) The gas supply module of claim 4, further comprising said fluid pressurizer.

48. (New) The gas supply module of claim 45, wherein said first refillable supply unit comprises a fixed-volume container having a hollow, and a moveable element subdividing said hollow into a first variable-volume portion communicating with said first input portal and a second variable-volume portion communicating with said second input portal.

49. (New) The gas supply module of claim 48, wherein said moveable element is a piston.

50. (New) The gas supply module of claim 48, wherein said moveable element is a bladder.

6

51. (New) The gas supply module of claim 48, wherein said moveable element is a diaphragm.

52. (New) The gas supply module of claim 45, wherein said module is operable to deliver substantially all of said first gas to said gas utilizing application at said second pressure.

53. (New) The gas supply module of claim 45, further comprising a second refillable supply unit.

54. (New) The gas supply module of claim 53, wherein said first refillable supply unit is operable to be refilled with said first gas at said first pressure while said second refillable supply unit provides gas to said gas utilizing application at said second pressure.

55. (New) The gas supply module of claim 54, wherein said second refillable supply unit is operable to be refilled with said first gas at said first pressure while said first refillable supply unit provides gas to said gas utilizing application at said second pressure.

56. (New) A gas supply unit operable to be charged, at a standard commercial pressurized gas supply source, with a pressurized gas at a first pressure, further operable to be transported to a gas utilization site, further operable to be connected to a source of a pressurizing fluid at a second pressure, and further operable to supply substantially all of said first gas to said gas utilizing application at said second pressure.